## S5 Table. Areas under the ROC curve from logistic regression models

<table>
<thead>
<tr>
<th>Characteristic of stratified analysis or definition of UTI positivity</th>
<th>Clean catch</th>
<th></th>
<th>Nappy pad</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N obs (N +ve)</td>
<td>AUC (95% CI)</td>
<td>N obs (N +ve)</td>
<td>AUC (95% CI)</td>
</tr>
<tr>
<td>Routine health service laboratory positive, age &lt;3 years</td>
<td>758 (45)</td>
<td>0.75 (0.67, 0.84)</td>
<td>2126 (144)</td>
<td>0.66 (0.61, 0.71)</td>
</tr>
<tr>
<td>Routine health service laboratory positive, age ≥3 years</td>
<td>1861 (59)</td>
<td>0.74 (0.67, 0.81)</td>
<td>63 (3)</td>
<td>Too few</td>
</tr>
<tr>
<td>Routine health service laboratory positive, age &lt;3 years, with “not known”</td>
<td>758 (45)</td>
<td>0.76 (0.68, 0.85)</td>
<td>2126 (144)</td>
<td>0.66 (0.61, 0.71)</td>
</tr>
<tr>
<td>Routine health service laboratory positive, age ≥3 years</td>
<td>1861 (37)</td>
<td>0.85 (0.77, 0.94)</td>
<td>63 (0)</td>
<td>Too few</td>
</tr>
<tr>
<td>Research laboratory positive age &lt;3 years</td>
<td>758 (22)</td>
<td>0.88 (0.80, 0.97)</td>
<td>2126 (29)</td>
<td>0.79 (0.70, 0.88)</td>
</tr>
<tr>
<td>Research laboratory positive age ≥3 years</td>
<td>1861 (3)</td>
<td>0.90 (0.81, 0.98)</td>
<td>2126 (29)</td>
<td>0.81 (0.72, 0.89)</td>
</tr>
<tr>
<td>Research laboratory positive, surgery sample</td>
<td>2012 (84)</td>
<td>0.73 (0.67, 0.80)</td>
<td>935 (64)</td>
<td>0.66 (0.58, 0.73)</td>
</tr>
<tr>
<td>Research laboratory positive, home sample</td>
<td>607 (20)</td>
<td>0.81 (0.71, 0.92)</td>
<td>1254 (83)</td>
<td>0.66 (0.59, 0.72)</td>
</tr>
<tr>
<td>Research laboratory positive, surgery sample</td>
<td>2012 (47)</td>
<td>0.90 (0.84, 0.96)</td>
<td>935 (12)</td>
<td>0.84 (0.73, 0.95)</td>
</tr>
<tr>
<td>Research laboratory positive, home sample</td>
<td>607 (12)</td>
<td>0.73 (0.55, 0.90)</td>
<td>1254 (17)</td>
<td>0.76 (0.64, 0.89)</td>
</tr>
<tr>
<td>Routine health service laboratory positive, sample receipt &lt;24 hours</td>
<td>1959 (76)</td>
<td>0.76 (0.69, 0.82)</td>
<td>1518 (108)</td>
<td>0.67 (0.31, 0.72)</td>
</tr>
<tr>
<td>Routine health service laboratory positive, sample receipt ≥24 hours</td>
<td>660 (28)</td>
<td>0.73 (0.64, 0.83)</td>
<td>671 (39)</td>
<td>0.62 (0.53, 0.70)</td>
</tr>
<tr>
<td>Research laboratory positive, sample receipt &lt;24 hours</td>
<td>794 (15)</td>
<td>0.89 (0.77, 1.00)</td>
<td>630 (7)</td>
<td>0.94 (0.87, 1.00)</td>
</tr>
<tr>
<td>Research laboratory positive, sample receipt ≥24 hours</td>
<td>1825 (44)</td>
<td>0.84 (0.76, 0.92)</td>
<td>1559 (22)</td>
<td>0.75 (0.64, 0.86)</td>
</tr>
<tr>
<td>Routine health service laboratory pure/predominant growth ≥10^5 CFU</td>
<td>2619 (104)</td>
<td>0.75 (0.69, 0.80)</td>
<td>2189 (147)</td>
<td>0.65 (0.61, 0.70)</td>
</tr>
<tr>
<td>Routine health service laboratory pure/predominant growth ≥10^3-10^5 CFU</td>
<td>2515 (47)</td>
<td>0.58 (0.51, 0.66)</td>
<td>2042 (40)</td>
<td>0.57 (0.48, 0.65)</td>
</tr>
<tr>
<td>Research laboratory p/p ≥10^6 CFU</td>
<td>2593 (33)</td>
<td>0.89 (0.81, 0.97)</td>
<td>2166 (6)</td>
<td>0.74 (0.60, 0.89)</td>
</tr>
<tr>
<td>Research laboratory p/p ≥10^3-10^6 CFU</td>
<td>2573 (13)</td>
<td>0.84 (0.70, 0.98)</td>
<td>2166 (6)</td>
<td>0.96 (0.92, 1.00)</td>
</tr>
<tr>
<td>Research laboratory p/p ≥10^4-10^6 CFU</td>
<td>2573 (13)</td>
<td>0.79 (0.64, 0.94)</td>
<td>2169 (9)</td>
<td>0.81 (0.68, 0.94)</td>
</tr>
<tr>
<td>Research laboratory p/p ≥10^4-10^5 CFU</td>
<td>2560 (24)</td>
<td>0.59 (0.51, 0.68)</td>
<td>2160 (61)</td>
<td>0.59 (0.54, 0.64)</td>
</tr>
<tr>
<td>Research laboratory p/p ≥10^3-10^4 CFU</td>
<td>2560 (110)</td>
<td>0.57 (0.52, 0.62)</td>
<td>2160 (93)</td>
<td>0.61 (0.56, 0.66)</td>
</tr>
<tr>
<td>Routine health service laboratory positive and WBC ≥30/mm³</td>
<td>2572 (57)</td>
<td>0.85 (0.79, 0.91)</td>
<td>2068 (26)</td>
<td>0.74 (0.62, 0.86)</td>
</tr>
<tr>
<td>Routine health service laboratory positive and WBC &lt;30/mm³</td>
<td>2562 (47)</td>
<td>0.63 (0.55, 0.71)</td>
<td>2163 (121)</td>
<td>0.64 (0.59, 0.69)</td>
</tr>
<tr>
<td>Research laboratory positive and WBC ≥30/mm³</td>
<td>2599 (39)</td>
<td>0.97 (0.93, 1.00)</td>
<td>2164 (4)</td>
<td>0.79 (0.48, 1.00)</td>
</tr>
<tr>
<td>Research laboratory positive and WBC &lt;30/mm³</td>
<td>2580 (20)</td>
<td>0.67 (0.54, 0.81)</td>
<td>2185 (25)</td>
<td>0.80 (0.71, 0.89)</td>
</tr>
<tr>
<td>Research laboratory pure growth ≥10^3 CFU</td>
<td>2604 (44)</td>
<td>0.84 (0.76, 0.92)</td>
<td>2172 (12)</td>
<td>0.83 (0.72, 0.94)</td>
</tr>
<tr>
<td>Research laboratory predominant growth ≥10^3 CFU</td>
<td>2575 (15)</td>
<td>0.92 (0.84, 1.00)</td>
<td>2177 (17)</td>
<td>0.76 (0.64, 0.89)</td>
</tr>
</tbody>
</table>

± Including “not known” responses for “Pain/crying when passing urine” and “Passing urine more often”; †Not all variables included because of perfect prediction; # WBC: white blood cell count.